UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,009	02/02/2006	Magnus Karlsson	20459-00395-US1	3321
	7590 10/01/200 OVE LODGE & HUT	EXAMINER		
1875 EYE STR	EET, N.W.	BEACH, THOMAS A		
SUITE 1100 WASHINGTO	N, DC 20006		ART UNIT	PAPER NUMBER
			3671	
			MAIL DATE	DELIVERY MODE
			10/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		А	pplication No.	. Applicant(s)				
Office Action Summary			0/540,009	KARLSSON ET	KARLSSON ET AL.			
			xaminer	Art Unit				
		ТІ	HOMAS A. BEACH	3671				
Period fo	The MAILING DATE of this communor Reply	nication appear	s on the cover sheet v	vith the correspondence a	address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINIOR SIX (6) MONTHS from the mailing date of this component of the provision of period for reply is specified above, the maximum some to reply within the set or extended period for reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE s of 37 CFR 1.136(a) munication. tatutory period will ap y will, by statute, cau	E OF THIS COMMUN In no event, however, may a pply and will expire SIX (6) MC se the application to become A	ICATION. It reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) file	ed on 27 Augu	st 2008.					
2a)□	•	<u> </u>	tion is non-final.					
3)	Since this application is in condition	<i>7</i> —		tters, prosecution as to t	he merits is			
- , <u> </u>	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)🖂	Claim(s) <u>1-10 and 12-15</u> is/are pend	ding in the app	lication.					
,—	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
·	Claim(s) <u>1-3,5-10 and 12-15</u> is/are	rejected.						
	Claim(s) 4 is/are objected to.	,						
, —	Claim(s) are subject to restri	ction and/or el	ection requirement.					
Applicat	ion Papers							
· · ·	The specification is objected to by the	ne Examiner						
-	The drawing(s) filed on is/are		ed or b) Objected to	by the Examiner.				
. • / 🗀	Applicant may not request that any obje		·	=				
	Replacement drawing sheet(s) including		• , ,	, ,				
11)	The oath or declaration is objected t	_	·		, ,			
·	under 35 U.S.C. § 119	•						
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies	of the priority	documents have bee	n received in this Nationa	al Stage			
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	ıt(s)							
1) 🛛 Notic	ce of References Cited (PTO-892)			Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 3) Information Disclosure Statement(s) (PTO/SB/08) Notice of Informal Patent Application								
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		6) Other: _					
•								

Application/Control Number: 10/540,009 Page 2

Art Unit: 3671

DETAILED ACTION

Claim Objections

1. Claim 1 is objected to because of the following informalities: on the last line, "24" should be deleted. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 5-10, and 12-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Kesavan et al H2020 H in view of Robinson 5,491,915. Kesavan shows wearing parts system for a tool of an earth moving machine of the type which comprises a holder part (24), attached to the tool and comprising a holder beak (30), and replacement part (16), comprising a hollow, configured to grip the holder beak such that said holder beak is at least partially fitted, along a line of symmetry extending longitudinally through the holder beak, into said replacement part and further configured to be fixed therein by means of a locking mechanism (18), a plurality of mutually interacting pairs of contact elements, disposed on each of said holder part and said replacement part, substantially symmetrically offset from the line of symmetry (fig 5), comprising:

Art Unit: 3671

at least one pair of front contact zones disposed at the distal end of the holder beak and substantially symmetrically disposed on either side of the line of symmetry and at least one pair of rear contact zones configured to increasingly taper proximally with respect to the line of symmetry and disposed at the proximal end of the holder beak and substantially symmetrically disposed on either side of the line of symmetry (fig 3-5); and

at least two interacting joints (36) comprising radial projections extending from the holder beak from each of said at least one pair of rear contact zones, and corresponding radial recesses disposed in the replacement part into each of said at least one pair of rear contact zones, wherein said at least two interacting joints are configured to provide a common rotational axis between them substantially perpendicular to the direction of fitting of the locking device and, wherein the recesses each comprise a projection end face wherein each recess end face and projection end face are configured to interact so as to limit the pushing on of the replacement part over the holder part and further configured to ensure that the contact area between each corresponding recess end face and projection end face is an initially small contact area at a common center of each of said radial projections and as the wear has progressed to said recess end face about the common center, that the contact area between each corresponding recess end face and projection end face is increased to a larger contact area, while at the same time the distance between the end faces of the interacting joints at their common center is substantially less than the distance between the end faces of the collars such that there is a play between the collars (fig 1-2).

Art Unit: 3671

Kesavan does not show a locking mechanism inserted through both the holder part and the replacement part substantially perpendicularly with respect to the line of symmetry and substantially perpendicular to the insertion path of said locking mechanism into said holder part and the replacement part. However, Robinson shows a similar wear parts system having a locking mechanism 200 (fig 9A) through both the holder part and the replacement part substantially perpendicularly with respect to the line of symmetry and substantially perpendicular to the insertion path of said locking mechanism into said holder part and the replacement part. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kesavan, as taught by Robinson, to include this type of locking mechanism for the expected result of an improved engagement connector pin (col. 1, line 37+).

As concern claim 2, the combination shows the locking mechanism (Robinson, fig 9A) comprises at least one locking device, at least one locking device, comprising at least a first, a second and a third section wherein the first section is configured to have the widest cross section and the third section is configured to have the smallest cross section among the first, second and third sections, configured to be placed through interacting openings disposed within both the holder part and the replacement part, such that when the locking device is placed through the openings in the replacement part and the holder part, three longitudinal sections are defined in the openings, in which the first section is configured to have the widest cross section, whilst the third section of the locking device opening through which the locking device is lastly inserted is configured to have the smallest section (fig 9A or 27).

As concern claim 3, the combination shows the locking device comprises a rigid locking device body having an elastic material (Robinson 242) inlaid into the locking device body, wherein the material is configured to load at least one movable engagement part toward a predetermined position.

As concern claim 5, the combination shows in that the locking device (Robinson, fig 9A) comprises a hollow for the elastic material (242), which hollow has a first gap opening intended for the expansion of the elastic material when this is subjected to load during the removal of the locking device, and, in addition thereto, one or more further gap openings through which the particular engagement parts, in a state which for the locking device, is free from external loads, project a certain way beyond the body of the locking device.

As concern claim 6, the combination shows that the locking device opening through the beak of the holder part comprises a first portion in the direction of fitting which is at least wider in a first direction than a corresponding portion of the body of the fitted locking device (Robinson, fig 9A), which portion of the locking device opening comprises a first segment and a second segment, which first segment, which is wider than the corresponding locking device body in the said first direction, is designed to constitute a cavity intended for securing plate in its extended position blocking the locking device, whilst the second segment is designed to constitute, or form, a space intended for the expansion of the elastically deformable resilient material when this is subjected to load during the removal of the locking device.

As concern claim 7, the combination shows that connecting to the locking device (Robinson, fig 9A) opening through the hood of the tine part there is a pin disposed on the inner side of the roof of the hood, against which pin the securing plate of the locking device shall fix (fig 9A).

As concern claim 8, the combination shows a bevel, which widens downward in the direction of fitting of the locking device, is disposed on that side of the locking device body facing toward the said pin, so that the locking device body and the pin are free from contact with each other (Kesavan, fig 1-5).

As concern claim 9, the combination shows a cross section through the body of the fitted locking device level with the inner side of the roof of the hood consists of a homogeneous, solid, unbroken cross section or a cross section which is unbroken to the extent of at least 50% or more (Kesavan, figs 3-5).

As concern claim 10, the combination shows a leverage ratio from the line of symmetry to the contact point between the hood of the tine part and the holder part is equal to zero or less than the radius of the projection (Kesavan, 3-4).

As concern claim 12, the combination shows the radius for a respective recess is larger than the radius for a corresponding projection (Kesavan, fig 6).

As concern claim 13, the combination shows at least two rear contact zones are provided, which comprise a greater angle of inclination to the line of symmetry of an inner, longitudinal peripheral line Pi along the locking device opening through the beak than of an outer, collateral longitudinal peripheral line (Kesavan, fig 2 & 5).

As concern claim 14, the combination shows the various contact faces and roundings, several being comprise a plurality of different inclinations, conicities parallel but laterally offset (Kesavan, fig 3-5).

As concern claim 15, the combination shows torque loads caused by the rotation of the wearing and/or replacement part in relation to the holder part are designed to be absorbed directly or after a certain minor wear by at least one of the front contact zones in interaction with at least the said contact zones on the rear collateral joints (Kesavan fig 3-6).

Allowable Subject Matter

3. Claim 4 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

4. Applicant's arguments with respect to the amended claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas A. Beach whose telephone number is 571.272.6988. The examiner can normally be reached on Monday-Friday, 8:00am-5:00pm.

Application/Control Number: 10/540,009 Page 8

Art Unit: 3671

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas Will can be reached on 571.272.6998. The fax phone number for

the organization where this application or proceeding is assigned is 571.273.8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Thomas A. Beach

/Thomas A Beach/

Primary Examiner, Art Unit 3671

October 8, 2008

THOMAS A. BEACH Primary Examiner Group 3600